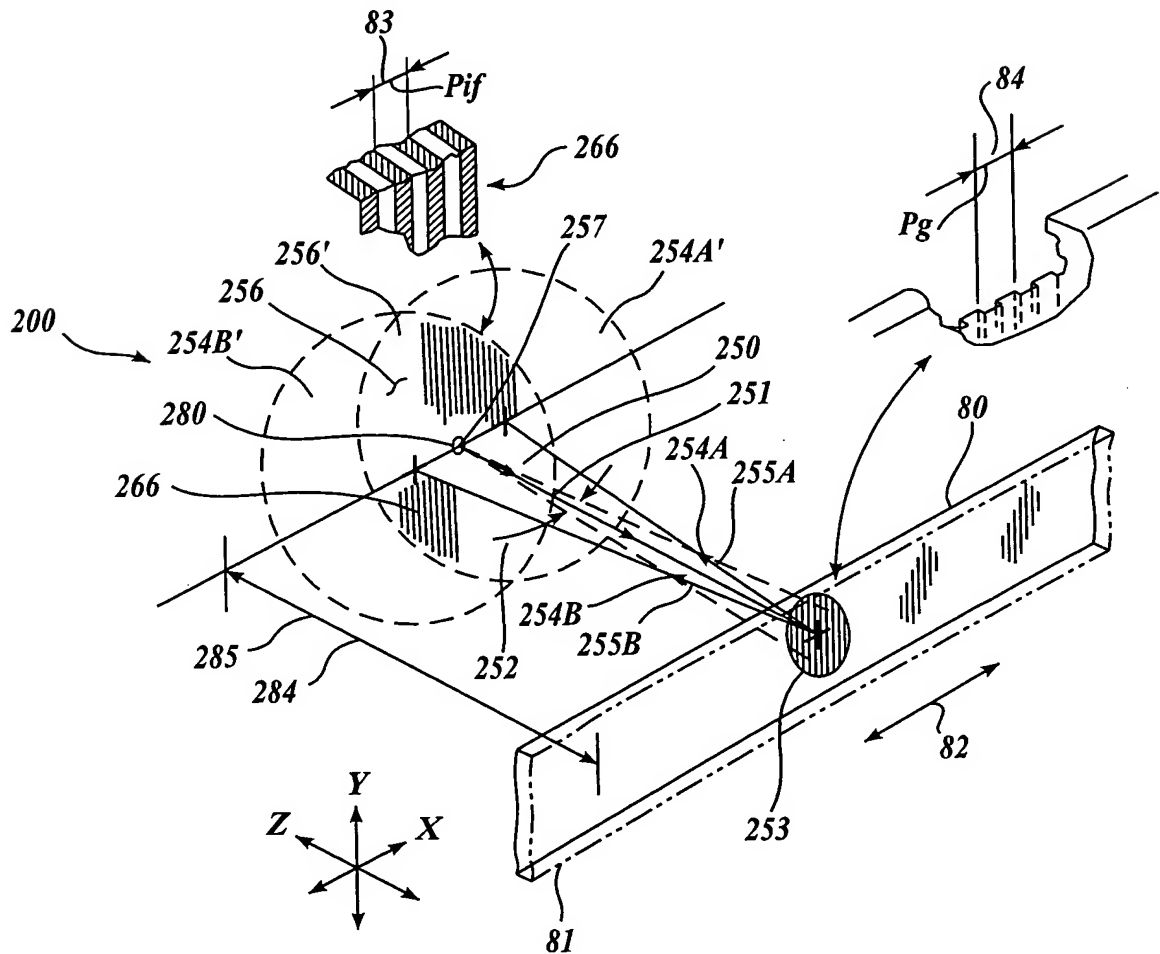


*Fig.1.*

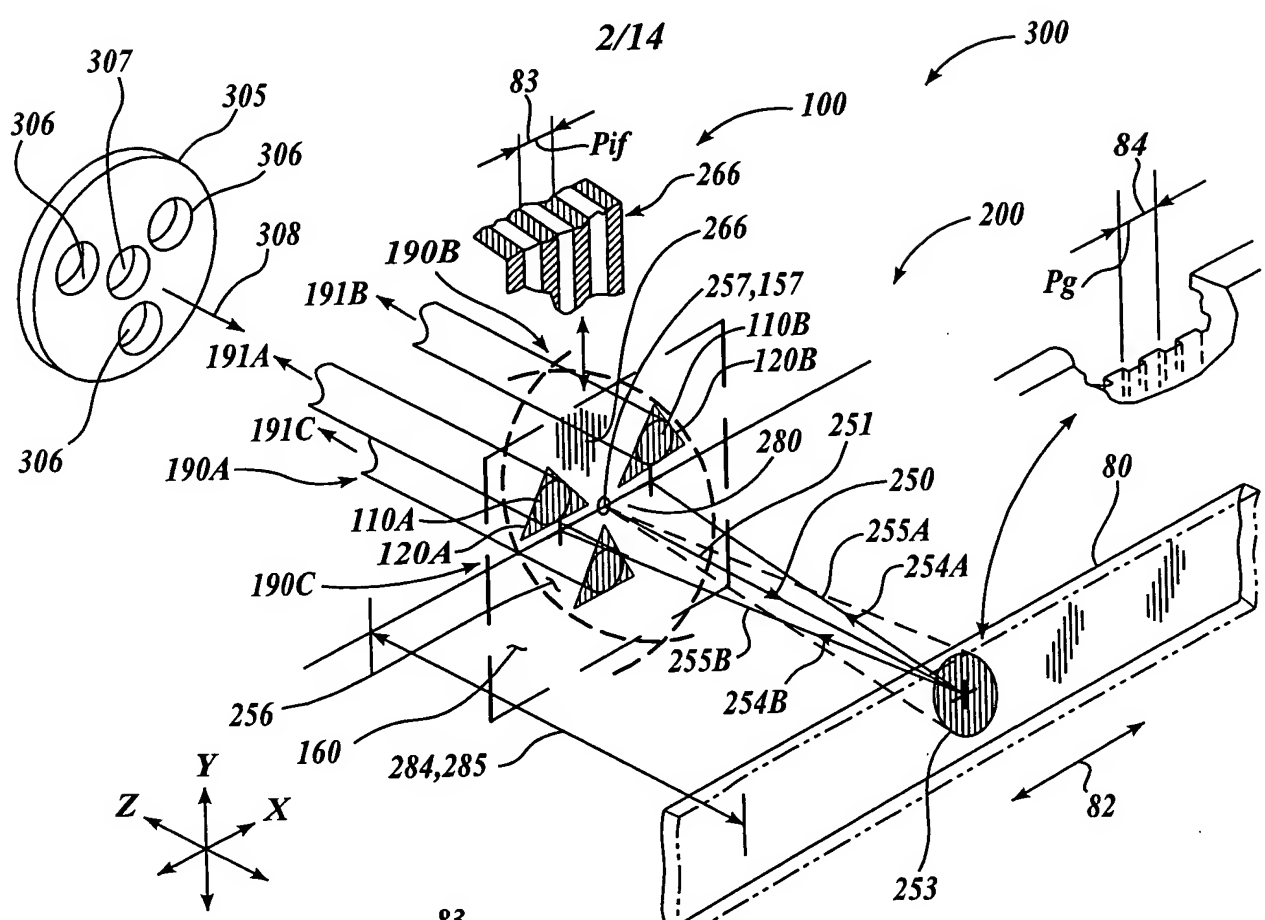


***Fig.2.***

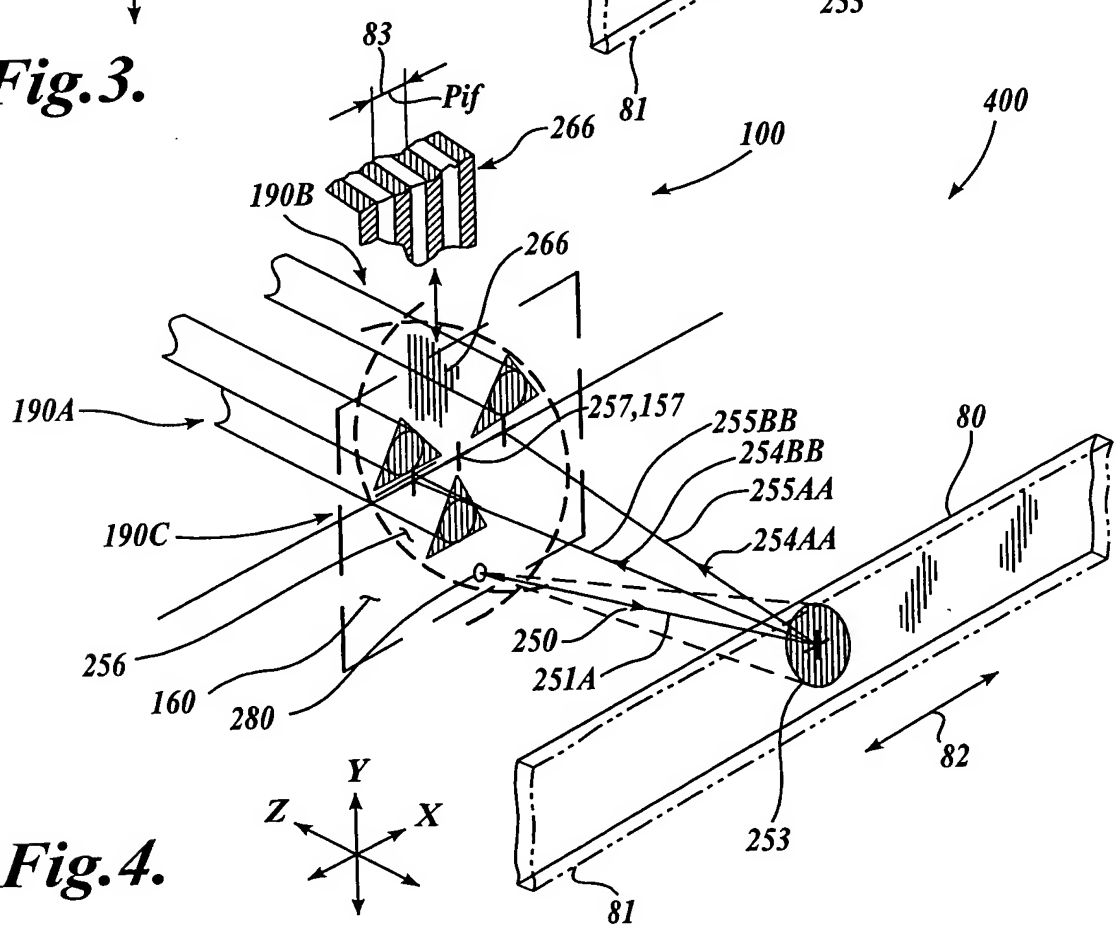


Title: INTERFEROMETRIC MINIATURE GRATING  
ENCODER READHEAD USING FIBER OPTIC RECEIVER  
CHANNELS

Inventor: J.D. Tobiason  
Application No. 10/674,619  
Docket No.: MEIP120131



**Fig. 3.**



**Fig. 4.**



Title: INTERFEROMETRIC MINIATURE GRATING  
ENCODER READHEAD USING FIBER OPTIC RECEIVER  
CHANNELS  
Inventor: J.D. Tobiason  
Application No. 10/674,619  
Docket No.: MEIP120131

3/14

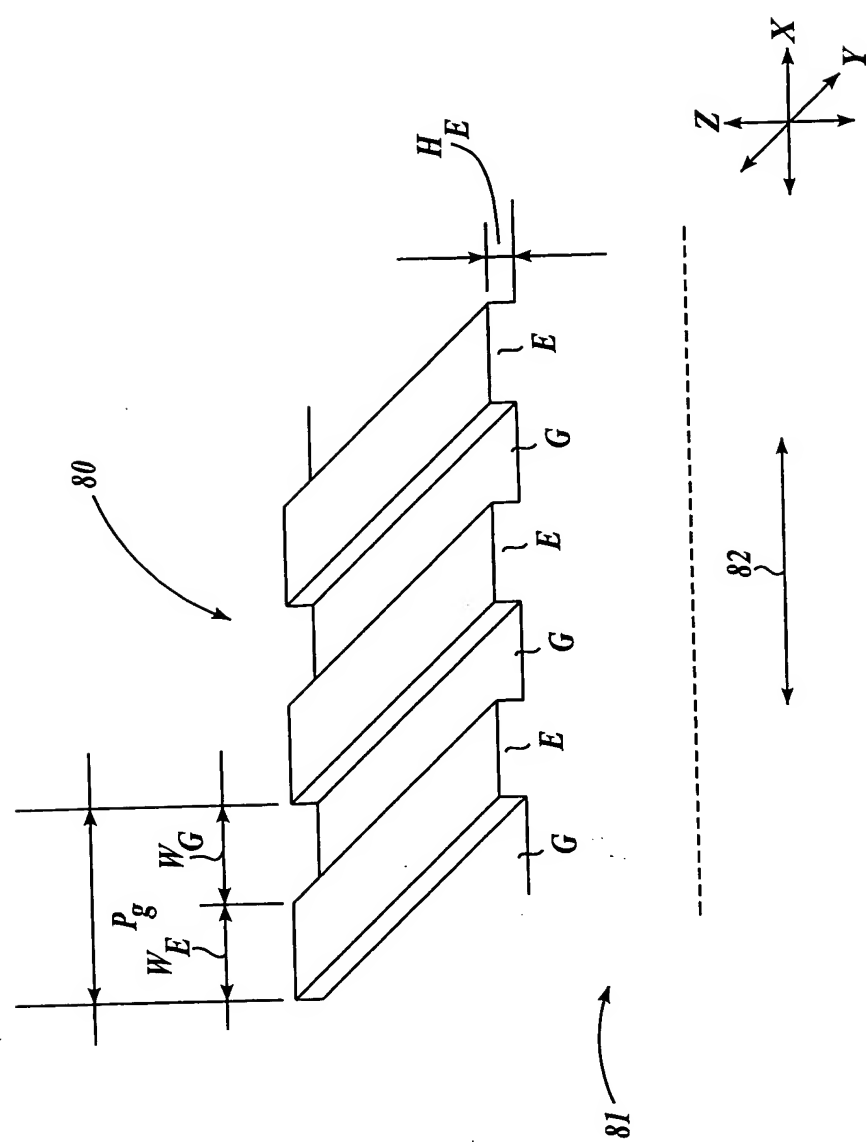


Fig.5.



Title: INTERFEROMETRIC MINIATURE GRATING  
ENCODER READHEAD USING FIBER OPTIC RECEIVER  
CHANNELS

Inventor: J.D. Tobiason  
Application No. 10/674,619  
Docket No.: MEIP120131

4/14

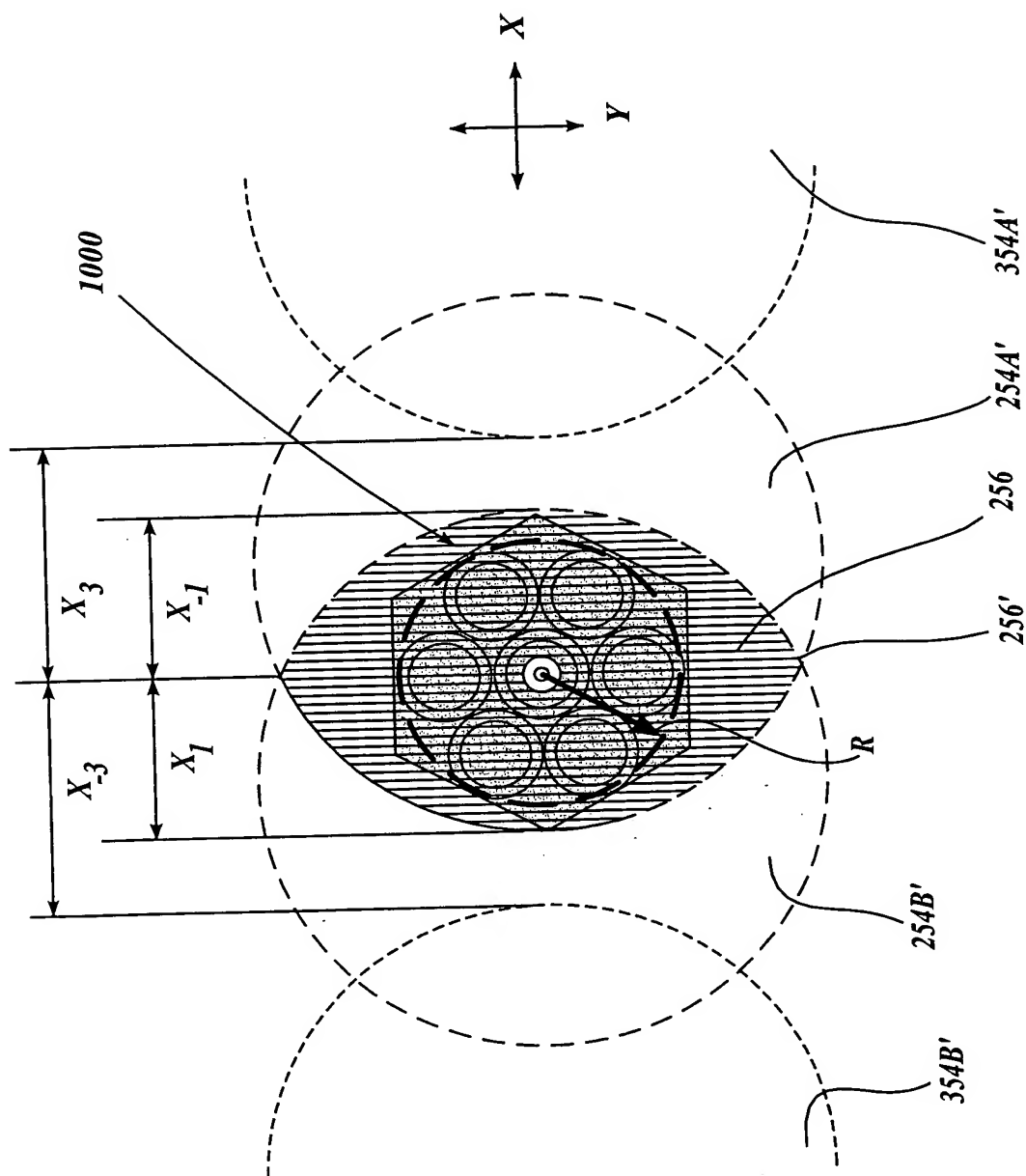


Fig. 6.

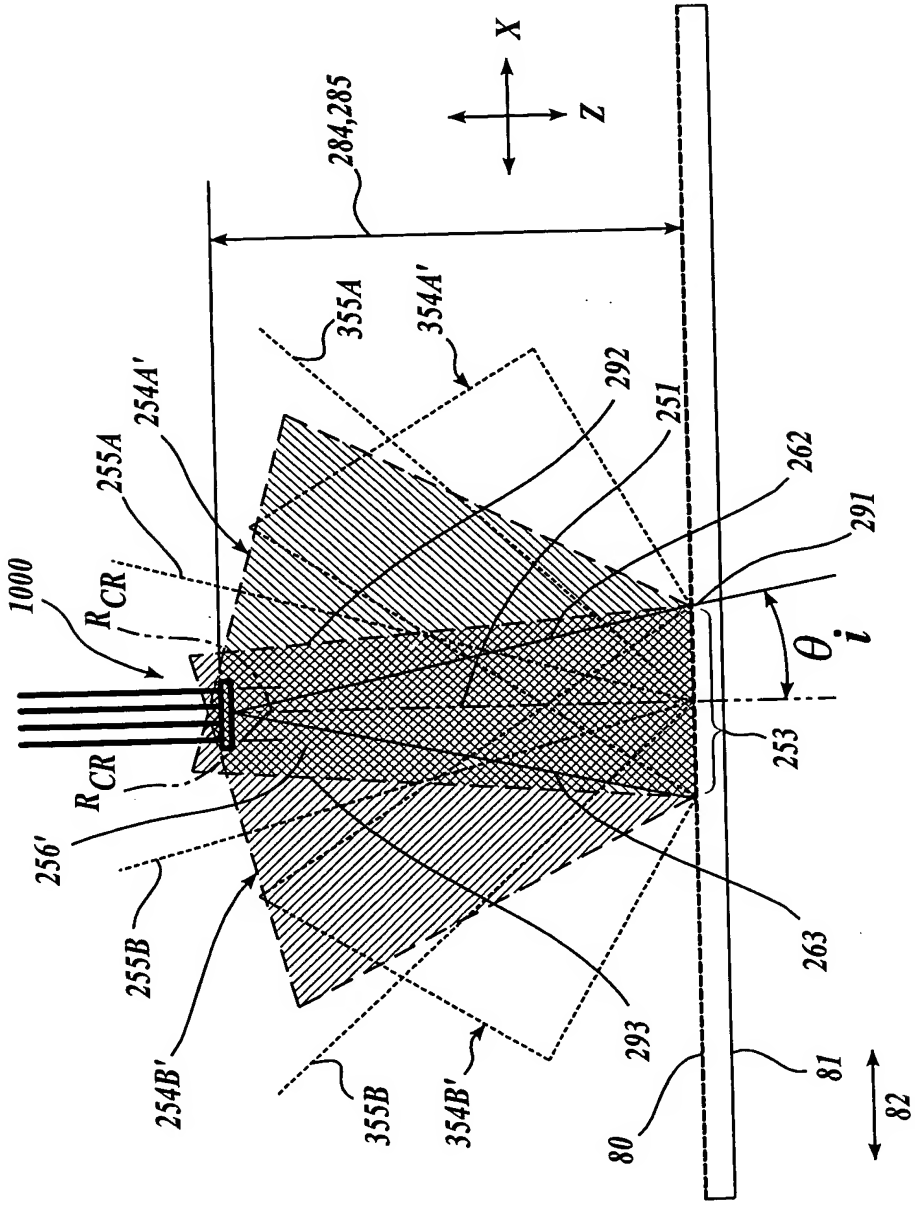


Fig. 7.



Title: INTERFEROMETRIC MINIATURE GRATING  
ENCODER READHEAD USING FIBER OPTIC RECEIVER  
CHANNELS

Inventor: J.D. Tobiason  
Application No. 10/674,619  
Docket No.: MEIP120131

6/14

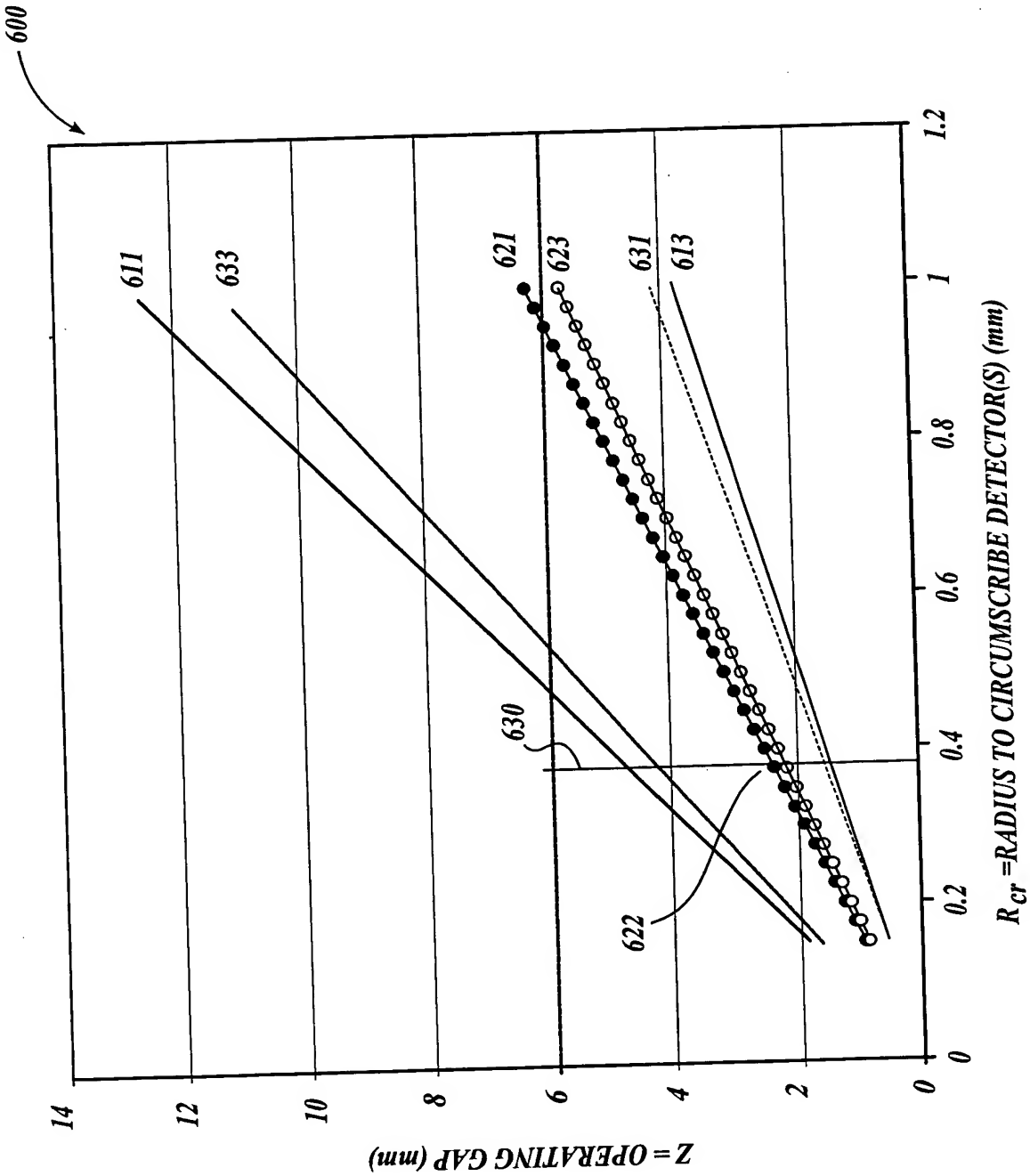


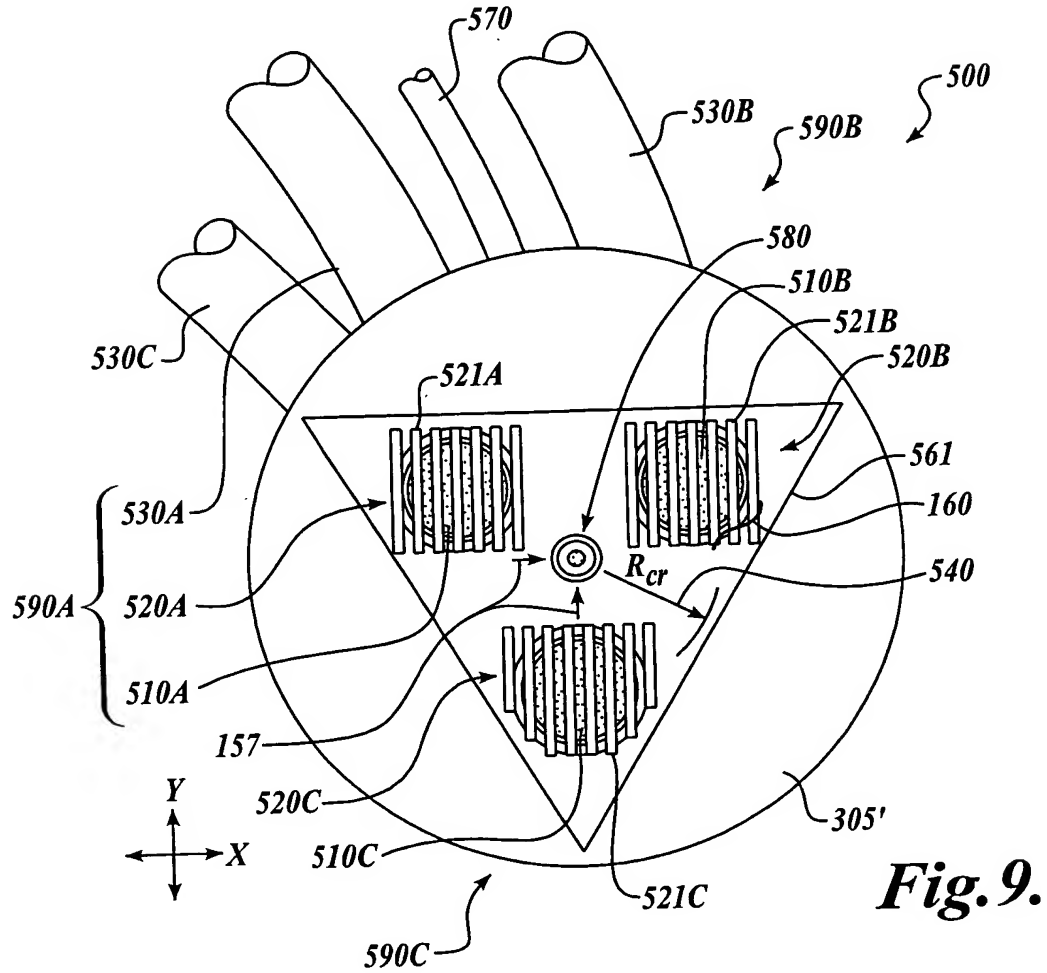
Fig.8.



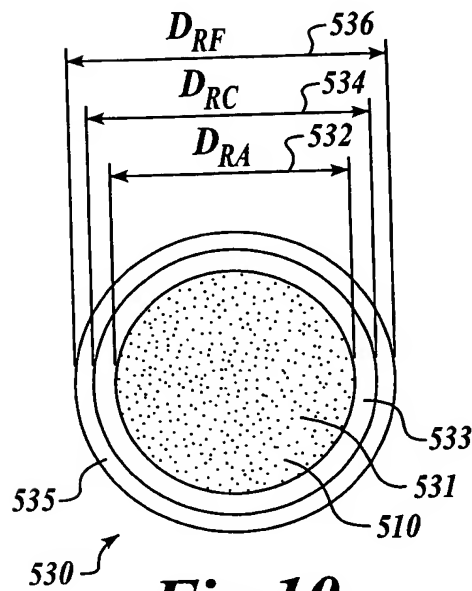
Title: INTERFEROMETRIC MINIATURE GRATING  
ENCODER READHEAD USING FIBER OPTIC RECEIVER  
CHANNELS

Inventor: J.D. Tobiason  
Application No. 10/674,619  
Docket No.: MEIP120131

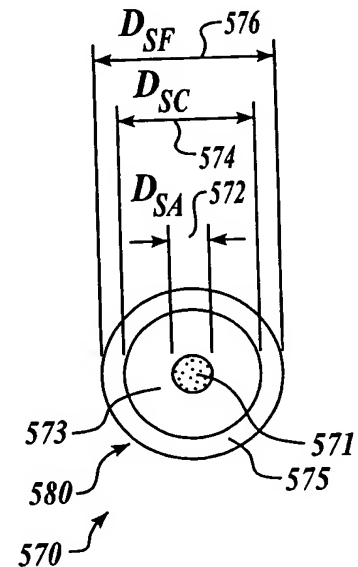
7/14



**Fig. 9.**



**Fig. 10.**



**Fig. 11.**

8/14

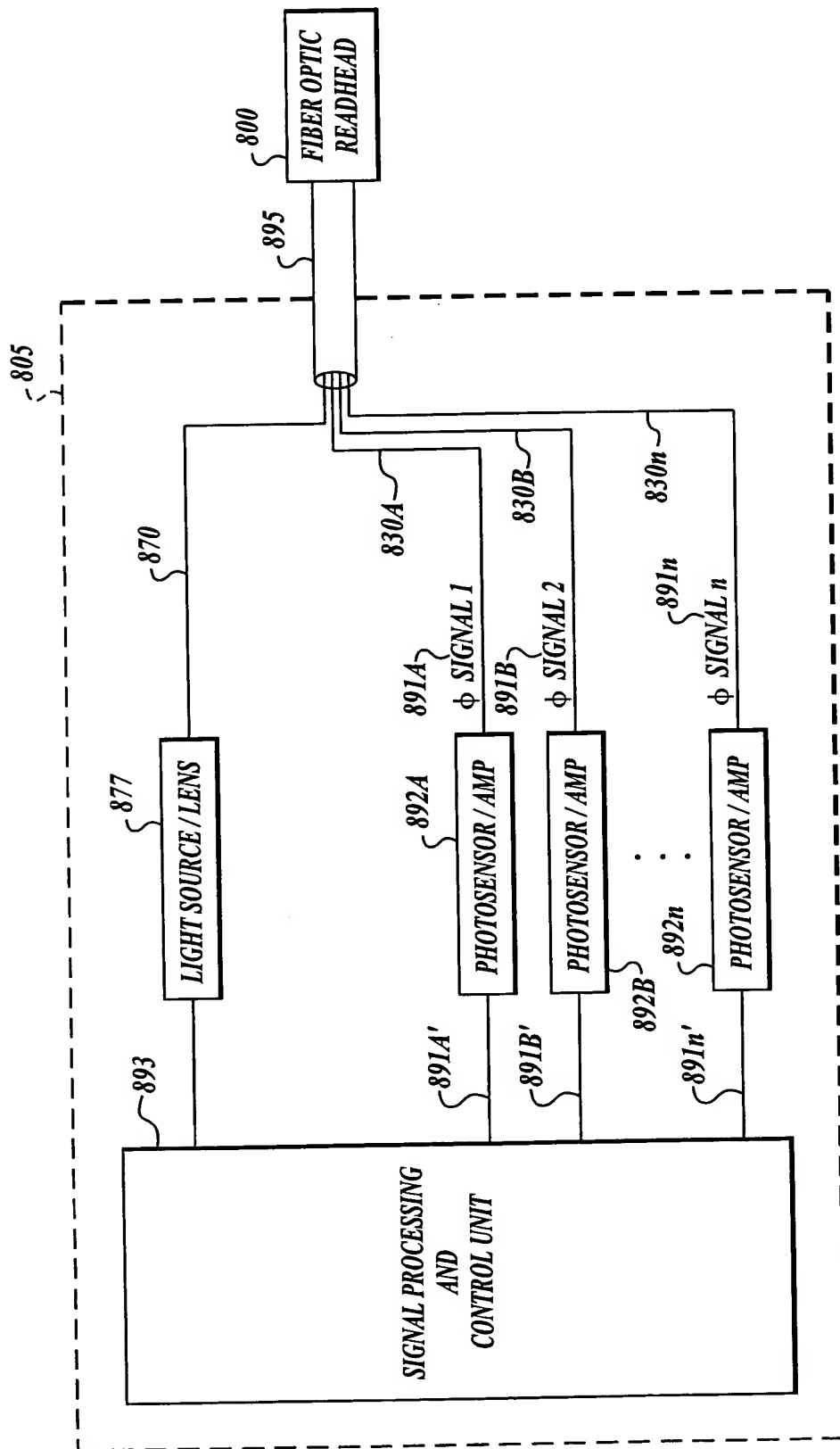
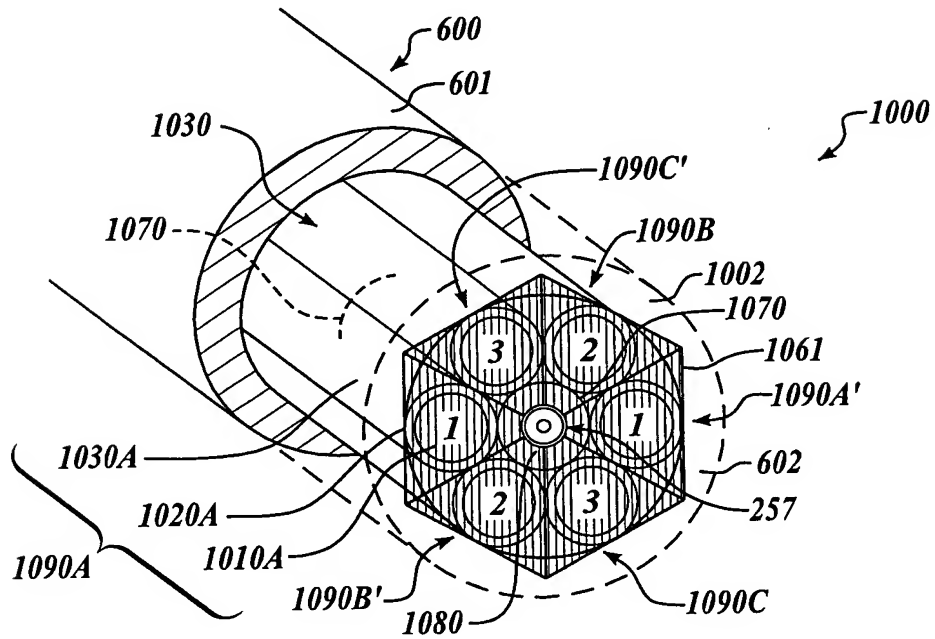


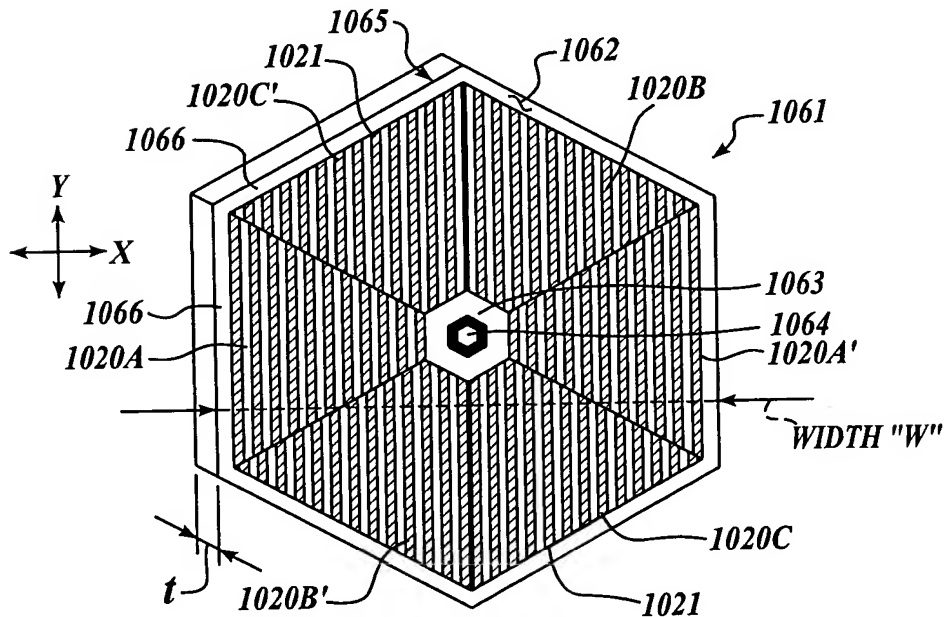
Fig.12.



9/14



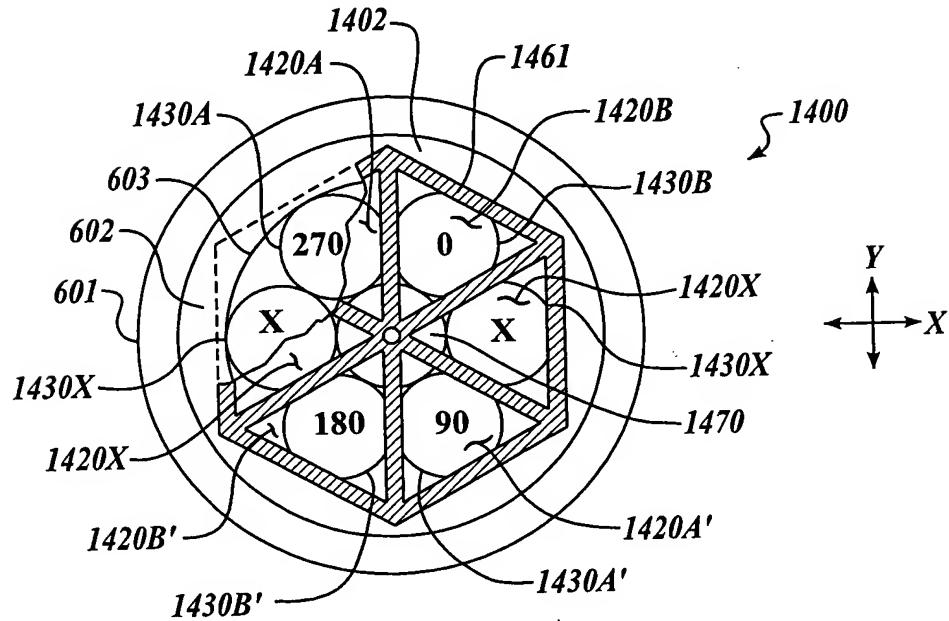
*Fig.13.*



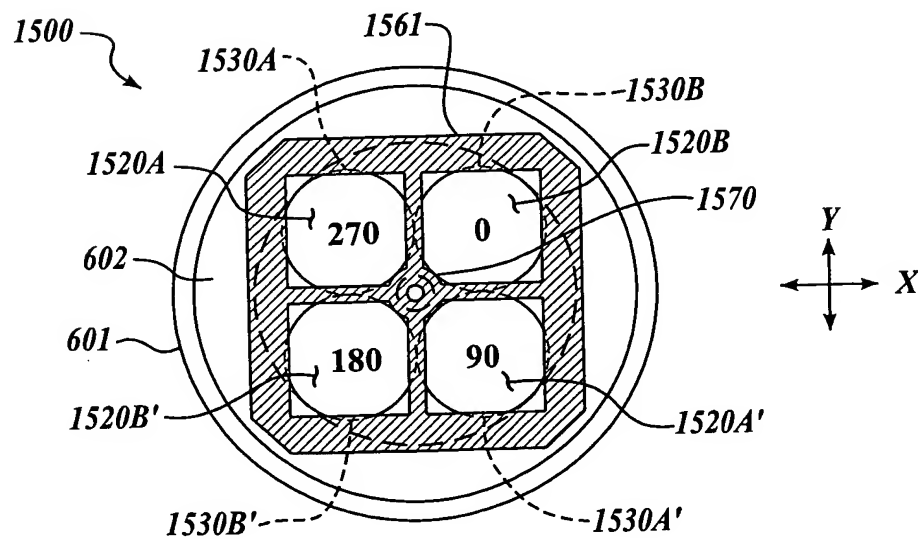
*Fig.14.*



11/14

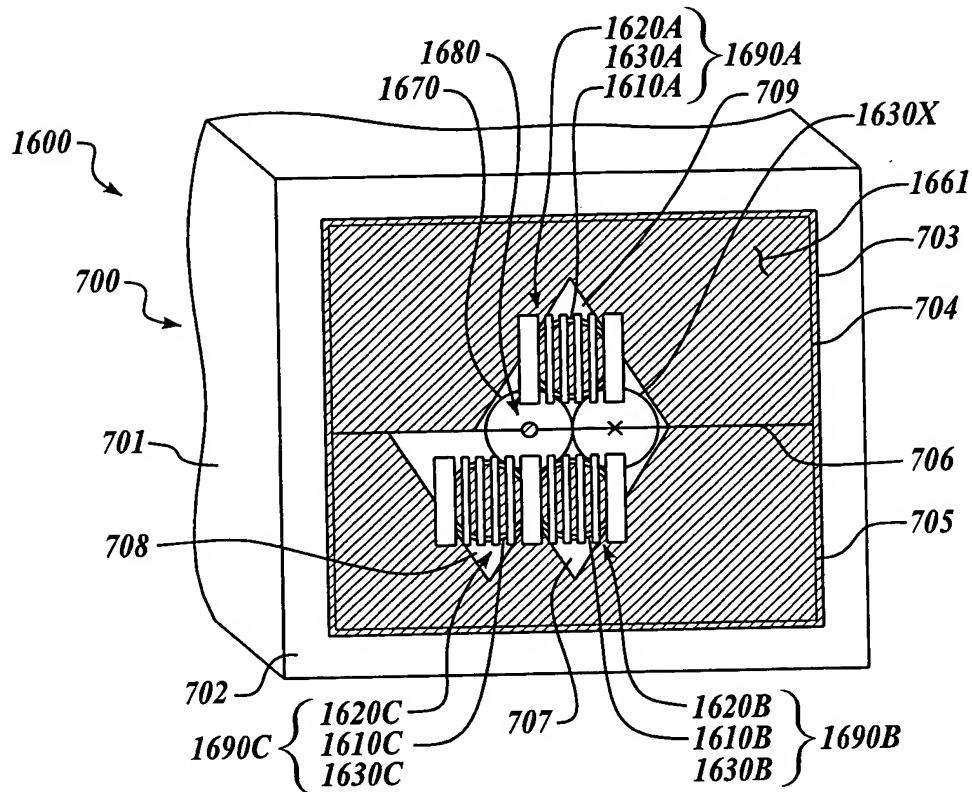


**Fig. 17.**



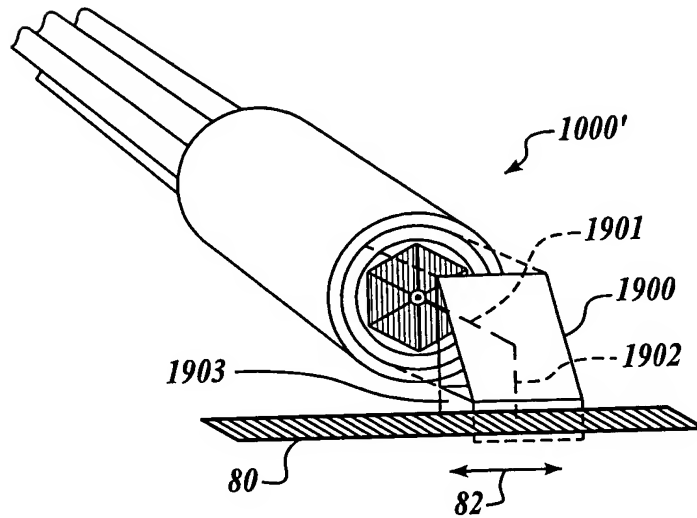
**Fig. 18.**

12/14

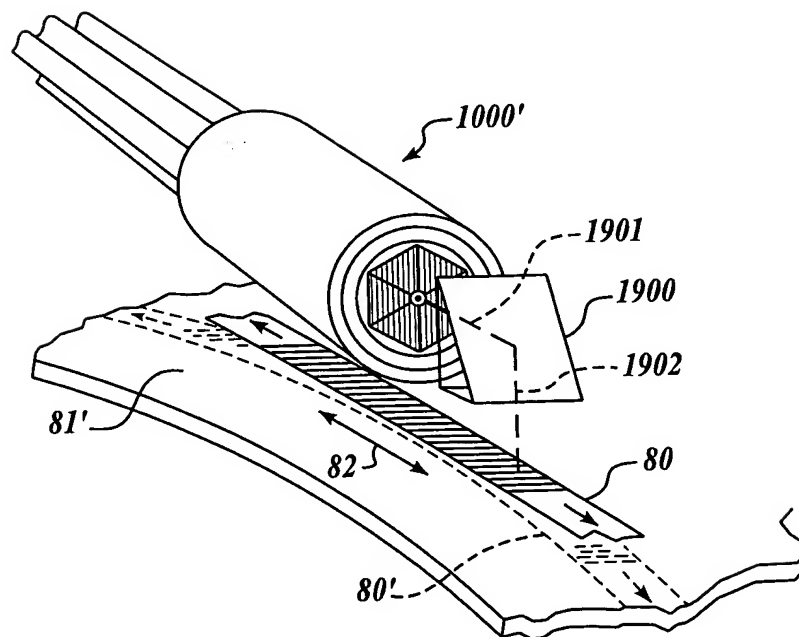


**Fig. 19.**

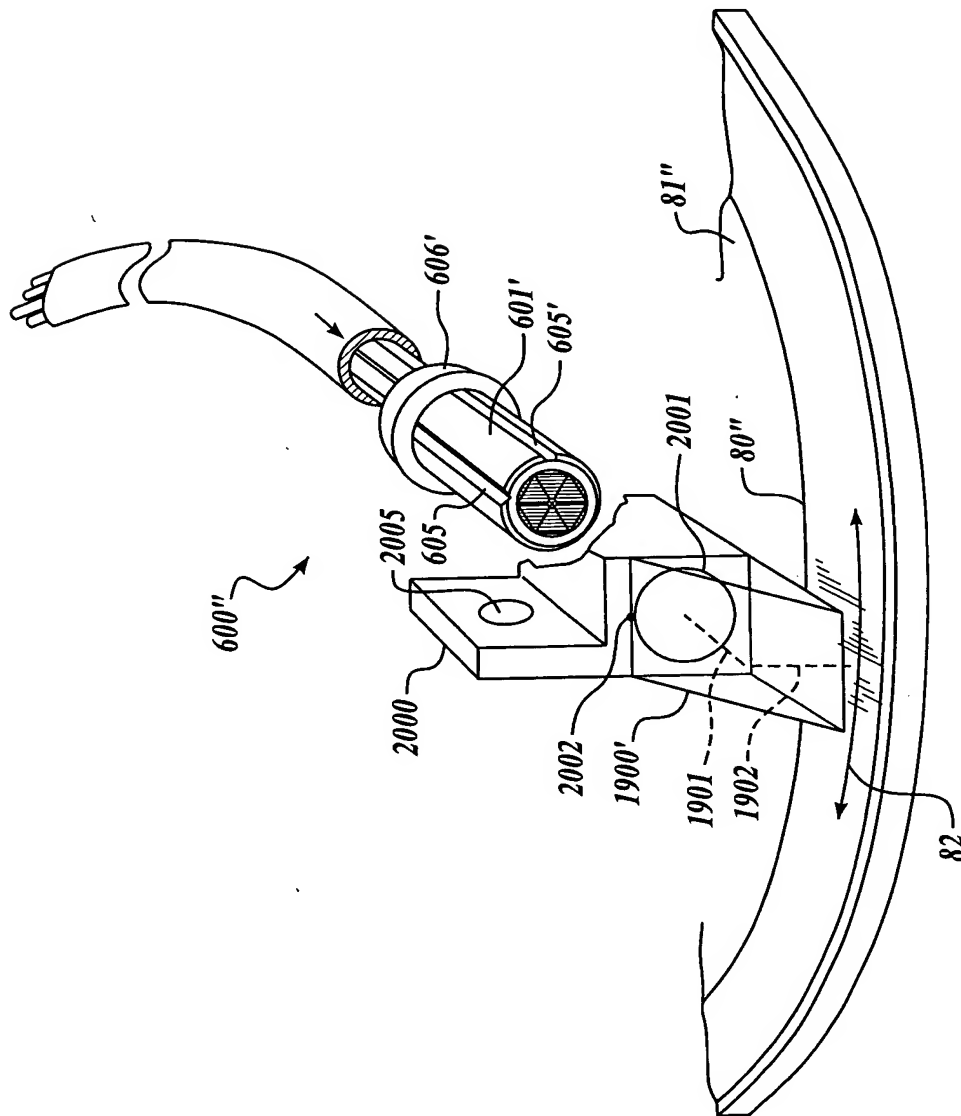
13/14



**Fig. 20A.**



**Fig. 20B.**



**Fig. 21.**